

KARIN J. IMMERGUT (OSB No. 96314)

United States Attorney

District of Oregon

**JIM SUTHERLAND** (OSB No. 68160)

jim.sutherland@usdoj.gov

Assistant United States Attorney

1000 S.W. Third Avenue, Suite 600

Portland, OR 97204-2902

(503) 727-1194 (tel) / (503) 727-1117 (fax)

SUE ELLEN WOOLDRIDGE

Assistant Attorney General

**MICHAEL J. ZEVENBERGEN** (WSB 21292)

michael.zevenbergen@usdoj.gov

U.S. Department of Justice

c/o NOAA/Damage Assessment

7600 Sand Point Way, NE

Seattle, WA 98115

(206) 526-6607 (tel) / (206) 526-6665 (fax)

**MEREDITH L. FLAX** (DCB 468016)

meredith.flax@usdoj.gov

U.S. Department of Justice

Environment & Natural Resources Division

Wildlife & Marine Resources Section

Ben Franklin Station, P.O. Box 7369

Washington, D.C. 20044-7369

(202) 305-0404 (tel) / (202) 305-0275 (fax)

Attorneys for Federal Defendants

UNITED STATES DISTRICT COURT  
DISTRICT OF OREGON

NORTHWEST ENVIRONMENTAL  
ADVOCATES, a non-profit corporation,

Plaintiff,

v.

UNITED STATES ENVIRONMENTAL  
PROTECTION AGENCY, NATIONAL MARINE  
FISHERIES SERVICE, and UNITED STATES  
FISH AND WILDLIFE SERVICE,

Defendants.

---

Civ. No. 05-1876-HA

UNITED STATES' NOTICE  
OF FILING UNITED  
STATES FISH AND  
WILDLIFE SERVICE'S  
CERTIFIED INDEX OF ITS  
ADMINISTRATIVE  
RECORD

Notice is hereby provided to the Court and the parties that the United States is hereby filing United States Fish and Wildlife Service's ("FWS") certified index to the administrative record. The Certified Index to FWS's Administrative Record is attached to this Notice of Filing as Attachment A. In order to lessen the burden on the Court of managing the large administrative record, the administrative record documents themselves will not be filed with the Court. Instead, the United States intends to file all administrative record documents cited by the parties in their summary judgment briefs as excerpts of record at the conclusion of the briefing schedule. Conversely, if the Court prefers to receive documents cited in the briefs prior to the conclusion of the briefing, the United States will work with the other parties to facilitate prompt delivery of those documents on the schedule desired by the Court.

Copies of FWS's administrative record documents are being mailed today to counsel for the parties identified in the Certificate of Service.

Respectfully submitted,

SUE ELLEN WOOLDRIDGE  
Assistant Attorney General  
Environment & Natural Resources Division

/s/ Meredith L. Flax  
MEREDITH L. FLAX  
United States Department of Justice  
P.O. Box 7369  
Washington, DC 20044-7369  
(202) 305-0404  
E-mail: Meredith.Flax@usdoj.gov

MICHAEL J. ZEVENBERGEN  
United States Department of Justice  
c/o NOAA/Damage Assessment  
7600 Sand Point Way, NE  
Seattle, WA 98115  
(206) 526-6607  
E-mail: michael.zevenbergen@usdoj.gov

Attorneys for United States of America

Dated: June 7, 2006

**CERTIFICATE OF SERVICE**

I hereby certify that on June 7, 2006, I caused a true copy of the UNITED STATES' NOTICE OF FILING FWS'S CERTIFIED INDEX OF ITS ADMINISTRATIVE RECORD to be served on each of the following named persons at his or her last known addresses in the manner indicated below:

Melissa Powers  
PACIFIC ENVIRONMENTAL  
ADVOCACY CENTER  
10015 S.W. Terwilliger Blvd.  
Portland, OR 97219  
powers@clark.edu

☐ Via Hand Delivery  
☐ Via E-mail  
☐ Via First-Class mail, postage pre-paid  
☐ Via Overnight Mail  
☒ Notice of electronic filing using  
CM/ECF

Alison LaPlante  
PACIFIC ENVIRONMENTAL  
ADVOCACY CENTER  
10015 S.W. Terwilliger Blvd.  
Portland, OR 97219  
laplante@clark.edu

☐ Via Hand Delivery  
☐ Via E-mail  
☐ Via First-Class mail, postage pre-paid  
☐ Via Overnight Mail  
☒ Notice of electronic filing using  
CM/ECF

Karen Moynahan  
Oregon Department of Justice  
1162 Court St., NE  
Salem, OR 97301-4096  
karen.moynahan@doj.state.or.us

☐ Via Hand Delivery  
☐ Via E-mail  
☐ Via First-Class mail, postage pre-paid  
☐ Via Overnight Mail  
☒ Notice of electronic filing using  
CM/ECF

Laura Maffei, R.G.  
Attorney at Law  
Schwabe Williamson & Wyatt  
1211 SW 5<sup>th</sup> Ave., Suites 1600-1900  
Portland, OR 97204  
Lmaffei@SCHWABE.com

☐ Via Hand Delivery  
☐ Via E-mail  
☐ Via First-Class mail, postage pre-paid  
☐ Via Overnight Mail  
☒ Notice of electronic filing using  
CM/ECF

/s/ Meredith L. Flax  
MEREDITH L. FLAX

**ATTACHMENT A**

KARIN J. IMMERGUT (OSB No. 96314)  
United States Attorney  
**JEFFREY K. HANDY** (OSB No. 84051)  
Assistant United States Attorney  
District of Oregon  
1000 S.W. Third Avenue  
Portland, OR 97204-2902

SUE ELLEN WOOLDRIDGE  
Assistant Attorney General  
Environment & Natural Resources Division

**MICHAEL J. ZEVENBERGEN**  
**MEREDITH FLAX**

U.S. Department of Justice  
c/o NOAA/Damage Assessment  
7600 Sand Point Way, NE  
Seattle, WA 98115  
(206) 526-6607  
(206) 526-6665 (fax)  
email: michael.zevenbergen@usdoj.gov  
Attorneys for United States of America

UNITED STATES DISTRICT COURT  
DISTRICT OF OREGON

NORTHWEST ENVIRONMENTAL ADVOCATES, a  
non-profit corporation,

Plaintiff,

v.

UNITED STATES ENVIRONMENTAL PROTECTION  
AGENCY, NATIONAL MARINE FISHERIES  
SERVICE, and UNITED STATES FISH AND  
WILDLIFE SERVICE,

Defendants.

---

Civ. No. 05-1876-HA

CERTIFICATION OF THE  
ADMINISTRATIVE RECORD  
FOR THE U.S. FISH AND  
WILDLIFE SERVICE'S  
BIOLOGICAL OPINION

I, Elizabeth Materna, declare as follows:

1. I am employed as a fish and wildlife biologist for the U.S. Fish and Wildlife Service (FWS) in the Oregon Fish and Wildlife Office, located in Portland, Oregon.
2. My duties include assembling and maintaining the administrative record for the FWS's biological opinion on the Environmental Protection Agency's proposed approval of revised Oregon water quality standards for temperature, intergravel dissolved oxygen, and antidegradation, dated February 24, 2004. I certify that the documents listed in the index filed herewith comprise the complete administrative record for this biological opinion, as determined to the best of my ability.
3. I make this declaration pursuant to 28 U.S.C. § 1746. I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Executed on June 5, 2006, at Portland, Oregon.

Elizabeth Materna

ELIZABETH MATERNA

# Index to Administrative Record for the Fish and Wildlife Service Biological Opinion for EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation February 24, 2004

Hyperlink	Bate Stamp Range	Date of Document	Description of Document
<b>Biological Opinion and Supporting Documents</b>			
<a href="#">1</a>	00001-00101	02/25/04	Letter from Oregon Fish and Wildlife Office (OFWO) to Randall F. Smith, US Environmental Protection Agency (EPA) re: Biological opinion; EPA's proposed approval of revised Oregon water quality standards for temperature, intergravel dissolved oxygen and antidegradation
<a href="#">2</a>	00102-00195	02/24/04	Fish and Wildlife Service (FWS) Biological Opinion (BO) for EPA's Proposed Approval of Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation
<a href="#">3</a>	00196-00199	02/04/04	Letter faxed from Michael T. Llewelyn, Oregon Department of Environmental Quality (ODEQ) to Randy Smith, EPA re: ODEQ Response to EPA Questions re the OR water quality temperature standards
<a href="#">4</a>	00200-00219	12/19/03	Oregon Department of Fish and Wildlife (ODFW) - Non-Anadromous Species Timing Unit tables
<a href="#">5</a>	00220-00311	11/10/03	ODEQ Water Pollution Division 41 Water Quality Standards: Beneficial uses, policies, and criteria for Oregon
<a href="#">6</a>	00312-00317	11/00/03	ODEQ Beneficial Use Designations, Fish Uses: Table 190B, 250B, 121B, 101B, and 140B
<a href="#">7</a>	00318-00319	10/14/03	Meeting Notes for October 14, 2003 Beneficial Use Group
<a href="#">8</a>	00320-00323	10/02/03	Letter from FWS, OFWO to Emily Smith, ODEQ re: Comments on proposed revisions to ODEQ Division 41 Water Quality Standards
<a href="#">9</a>	00324-00325	05/28/03	Meeting Notes written by Elizabeth Materna, FWS, for Where and When Team
<a href="#">10</a>	00326-00330	05/27/03	ODFW Life stage Timing Criteria, Definitions, and Questions
<a href="#">11</a>	00331-00335	05/09/03	Draft Temperature Standard Options
<a href="#">12</a>	00336-00340	04/21/03	Letter from FWS to John Lani, EPA re: Comments on the final version of EPA Region 10 Guidance for State and Tribal Temperature Water Quality Standards
<a href="#">13</a>	00341-00342	11/29/02	Federal Register / Vol. 67, No. 230 / Friday, November 29, 2002 / Proposed Rules Bull Trout 71265
<a href="#">14</a>	00343-00357	11/29/02	Federal Register Department of Interior Fish and Wildlife Service 50 CFR Part 17; Proposed Designation of Critical Habitat for the Klamath River and Columbia River District Population Segments of Bull Trout and Notice of Availability of the Draft Recovery Plan
<a href="#">15</a>	00358-00371	09/19/02	Myrick, C.A. 2002. Bull Trout Temperature Thresholds Peer Review Summary. Prepared for US Fish and Wildlife Service, Lacey, Washington
<a href="#">16</a>	00372-00432	07/01/99	Letter/BO from FWS OFWO to Randall F. Smith, EPA re: Oregon water quality standards ESA consultation
<a href="#">17</a>	00433-00434	00/00/00	FWS Bull Trout Issue - General Background, Basin Specific Information



<a href="#"><u>18</u></a>	00435-00438	00/00/00	ODEQ Table 190B Beneficial use designations, Fish Uses, Malheur Lake Basin, Oregon: FWS Lahontan Cutthroat Trout distribution maps
<b>E-Mail Messages</b>			
<a href="#"><u>19</u></a>	00439-00439	02/23/04	Email from Rollie White, FWS, to Elizabeth Materna, FWS, re: Amount of take in the biological opinion, with one attachment
<a href="#"><u>20</u></a>	00440-00441	02/23/04	Attachment: Edits to the BO on the Effect of Take
<a href="#"><u>21</u></a>	00442-00442	02/20/04	Email from Jesse Delia, FWS, to Elizabeth Materna, FWS, re: Bull trout consulted-on effects, with one attachment
<a href="#"><u>22</u></a>	00443-00469	02/20/04	Attachment: Consulted-on effects that have been analyzed through section 7 consultation as reported in a biological opinion
<a href="#"><u>23</u></a>	00470-00470	02/19/04	Email from Anne Walker, FWS, to Elizabeth Materna, FWS, re: 2003 bull trout survey results above and below the Clear branch dam, with one attachment
<a href="#"><u>24</u></a>	00471-00581	02/19/04	Attachment: Mt Hood recovery unit chapter of the bull trout recovery plan
<a href="#"><u>25</u></a>	00582-00582	02/19/04	Email from Cat Brown, FWS, to Elizabeth Materna, FWS, re: Oregon chub consultation history, with one attachment
<a href="#"><u>26</u></a>	00583-00584	02/19/04	Attachment: Previous biological opinions for Oregon Chub
<a href="#"><u>27</u></a>	00585-00585	02/17/04	Email from Chris Allen, FWS, to Elizabeth Materna, FWS, re: Upper McKenzie Redd survey for fall 2003, with one attachment
<a href="#"><u>28</u></a>	00586-00587	02/17/04	Attachment: Upper McKenzie Redd count Bull trout and Chinook, October 7, 2003
<a href="#"><u>29</u></a>	00588-00588	02/17/04	Email from Chris Allen, FWS, to Elizabeth Materna, FWS, re: Annual report from ODFW, spawning survey data for bull trout Carmen Dam, with one attachment
<a href="#"><u>30</u></a>	00589-00616	02/17/04	Attachment: Bull trout population monitoring in the McKenzie and Middle Fork Willamette Rivers, Annual Progress Report 2002
<a href="#"><u>31</u></a>	00617-00618	02/17/04	Email from Chris Allen, FWS, to Elizabeth Materna, FWS, re: McKenzie bull trout Redd count 2003, with one attachment
<a href="#"><u>32</u></a>	00619-00619	02/17/04	Attachment: Redd table from year 1989 to 2003
<a href="#"><u>33</u></a>	00620-00620	02/10/04	Email from Kellie Kubena, EPA, to Marylou Soscia, EPA re: Bull trout spawning below dams
<a href="#"><u>34</u></a>	00621-00626	01/29/04	Email from John Stephenson, FWS, to Bianca Streif, FWS, re: Bull trout fry emergence in the Umatilla and Walla Walla basins
<a href="#"><u>35</u></a>	00627-00630	01/29/04	Email from Debra Sturdevant, ODEQ, to Elizabeth Materna, FWS, re: ODEQ temperature letter
<a href="#"><u>36</u></a>	00631-00632	01/28/04	Email from Bianca Streif, FWS to Elizabeth Materna, FWS, re: Fry emergence in John Day, Malheur and Willamette
<a href="#"><u>37</u></a>	00633-00634	01/27/04	Email from Bianca Streif, FWS to Elizabeth Materna, FWS, re: Fry emergence in Imnaha
<a href="#"><u>38</u></a>	00635-00636	01/27/04	Email from Bianca Streif, FWS to Elizabeth Materna, FWS, re: Fry emergence in the Deschutes
<a href="#"><u>39</u></a>	00637-00638	01/27/04	Email from Peter Lickwar, FWS, to Elizabeth Materna, FWS, re: Bull trout spawning, with one attachment
<a href="#"><u>40</u></a>	00639-00797	01/27/04	Attachment: PGE's Draft Pelton Round Butte hydroelectric project supplemental biological evaluation, January 16, 2004
<a href="#"><u>41</u></a>	00798-00798	01/27/04	Email from Debra Sturdevant, ODEQ, to Elizabeth Materna, FWS, re: Table of the spawning through emergence times for bull trout by basin and sub-basin, with one attachment
<a href="#"><u>42</u></a>	00799-00800	01/27/04	Attachment: Bull trout life stage timing

<a href="#"><u>43</u></a>	00801-00801	01/14/04	Email from Bianca Streif, FWS to Elizabeth Materna, FWS, re: Bull trout spawning
<a href="#"><u>44</u></a>	00802-00803	01/06/04	Email from Doug Young, FWS, to Elizabeth Materna, FWS, re: Spawning dates
<a href="#"><u>45</u></a>	00804-00804	12/18/03	Email from Carmen Thomas, FWS, Elizabeth Materna, FWS, re: Bull trout in Hells Canyon or Oxbow Reservoir
<a href="#"><u>46</u></a>	00805-00806	12/17/03	Email from Dru Keenan, EPA, to Elizabeth Materna, FWS re: Draft conservation measures please review with two attachments
<a href="#"><u>47</u></a>	00807-00810	12/17/03	Email from Dru Keenan, EPA to Elizabeth Materna, FWS re: Oregon clarification letter, attachment duplicate of first 12/17/03 email from EPA
<a href="#"><u>48</u></a>	00811-00812	12/16/03	Email from Debra Sturdevant, ODEQ, to Elizabeth Materna, FWS, re: Error in rule
<a href="#"><u>49</u></a>	00813-00813	12/15/03	Email from Debra Sturdevant, ODEQ, to Dru Keenan, EPA, Lahontan cutthroat trout habitat information
<a href="#"><u>50</u></a>	00814-00814	12/15/03	Email from Chris Allen, FWS, to Elizabeth Materna, FWS, re: Modoc suckers only found in the Goose Lake Basin
<a href="#"><u>51</u></a>	00815-00815	12/11/03	Email from Chris Allen, FWS, to Elizabeth Materna, FWS, re: Bull trout status for the Willamette BO, with one attachment
<a href="#"><u>52</u></a>	00816-00855	12/11/03	Attachment: Willamette BO: bull trout status of the species and critical habitat
<a href="#"><u>53</u></a>	00856-00857	12/10/03	Email from Rollie White, FWS, to Elizabeth Materna, FWS, re: conservation measures
<a href="#"><u>54</u></a>	00858-00859	11/20/03	Email from Dru Keenan, EPA, to Elizabeth Materna, FWS re: Options for bull trout spawning below dams
<a href="#"><u>55</u></a>	00860-00860	11/20/03	Attachment: Options for bull trout spawning below dams
<a href="#"><u>56</u></a>	00861-00861	11/20/03	Email from Anne Walker, FWS, to Elizabeth Materna, FWS, re: Phone record for temperatures above and below the Laurance lake, with one attachment
<a href="#"><u>57</u></a>	00862-00862	11/20/03	Attachment: Phone record with Mt. Hood National Forest, re: bull trout spawn below the dam (Laurance Lake)
<a href="#"><u>58</u></a>	00863-00863	11/20/03	Email from Debra Sturdevant, ODEQ, to Elizabeth Materna, FWS, re: Powerpoint maps for Lahontan, with one attachment
<a href="#"><u>59</u></a>	00864-00867	11/20/03	Attachment: Lahontan cutthroat trout, brown trout, Alvord and Borax chub maps
<a href="#"><u>60</u></a>	00868-00868	11/18/03	Email from Anne Walker, FWS, to Elizabeth Materna, FWS, re: Mt Hood bull trout status in the revised draft recovery plan, with one attachment
<a href="#"><u>61</u></a>	00869-00875	11/18/03	Attachment: Mt Hood bull trout status in the revised draft recovery plan
<a href="#"><u>62</u></a>	00876-00876	11/07/03	Email from Debra Sturdevant, ODEQ, to Robert Anderson, NMFS, re: Revised draft of Findings of ODEQ's Technical Advisory Committee on Water Quality Criteria for Temperature, with one attachment
<a href="#"><u>63</u></a>	00877-00895	11/07/03	Attachment: A Summary of the Discussion and Findings of ODEQ's Technical Advisory Committee on Water Quality Criteria for Temperature
<a href="#"><u>64</u></a>	00896-00898	11/05/03	Email from Anne Walker, FWS, to Elizabeth Materna, FWS, re: Holy Heat Sump, concerns with winter temperatures below dams
<a href="#"><u>65</u></a>	00899-00904	11/04/03	Email from Anne Walker, FWS to Elizabeth Materna, FWS re: Holy Heat Sump; temperature below Clear Branch Dam during the winter

<a href="#"><u>66</u></a>	00905-00906	11/03/03	Email from Elizabeth Materna, FWS to Dru Keenan, EPA re: Notes from 10/28 meeting - key unresolved issues with one attachment
<a href="#"><u>67</u></a>	00907-00907	11/03/03	Attachment: Draft meeting notes from where and when meeting October 28, 2003
<a href="#"><u>68</u></a>	00908-00908	11/03/03	Email from Debra Sturdevant, ODEQ to Jeff Lockwood re: Notes from 10/28 meeting; key unresolved issues
<a href="#"><u>69</u></a>	00909-00910	10/27/03	Email from Jeff Lockwood, NMFS to Debra Sturdevant, OSU re: Final notes from 10/14 where and when meeting, with one attachment
<a href="#"><u>70</u></a>	00911-00912	10/27/03	Attachment: Meeting notes for October 14, 2003, beneficial use group
<a href="#"><u>71</u></a>	00913-00915	10/22/03	Email from Tracy Harrison, ODEQ to Debra Sturdevant, ODEQ, re: Date ranges for the migration (BTHD-2) and potential migration (BTHD-4) in the Klamath, Powder and Malheur river basins, with two attachments
<a href="#"><u>72</u></a>	00916-00916	10/22/03	Attachment 1: Malheur Bull trout map
<a href="#"><u>73</u></a>	00917-00917	10/22/03	Attachment 2: Klamath Bull trout map
<a href="#"><u>74</u></a>	00918-00918	10/16/03	Email from Debra Sturdevant, ODEQ, to Elizabeth Materna, FWS, re: Data from streams with bull trout, with three attachments
<a href="#"><u>75</u></a>	00919-00919	10/16/03	Attachment 1: Summary temperature data for sections of Metolius and Minam Rivers; low risk bull trout streams
<a href="#"><u>76</u></a>	00920-00920	10/16/03	Attachment 2: Summary temperature data for sections of Metolius and Minam Rivers; low risk bull trout streams
<a href="#"><u>77</u></a>	00921-00921	10/16/03	Attachment 3: Summary temperature data for the McKenzie river
<a href="#"><u>78</u></a>	00922-00922	10/15/03	Email from Debra Sturdevant, ODEQ, to Elizabeth Materna, FWS, re: Rock creek data, with one attachment
<a href="#"><u>79</u></a>	00923-00924	10/15/03	Attachment: Summary temperature data for Rock Creek in the Powder Basin
<a href="#"><u>80</u></a>	00925-00928	10/02/03	Email from Shelley Spalding, FWS Lacey, Washington, to Elizabeth Materna, FWS, re: Status of the revised Oregon temperature standards
<a href="#"><u>81</u></a>	00929-00930	09/25/03	Email from Elizabeth Materna, FWS, to Adrienne Allen, EPA, re: Bull trout spawning criteria issue from our draft bull trout recovery plan, October 2002
<a href="#"><u>82</u></a>	00931-00932	09/18/03	Email from Alan Mauer, FWS, to Elizabeth Materna, FWS, re: Bull trout question related to Oregon temperature criteria
<a href="#"><u>83</u></a>	00933-00933	09/18/03	Email from John Bowerman, FWS, to Elizabeth Materna, FWS, re: Bull trout question related to Oregon temperature criteria
<a href="#"><u>84</u></a>	00934-00934	09/17/03	Email from Carmen Thomas, FWS, Elizabeth Materna, FWS, re: Bull trout question related to Oregon temperature criteria
<a href="#"><u>85</u></a>	00935-00935	09/10/03	Email from Elizabeth Materna, FWS to Dru Keenan, EPA re: Bull trout spawning times in the Pine River Basin
<a href="#"><u>86</u></a>	00936-00938	08/12/03	Email from Debra Sturdevant, ODEQ, to Elizabeth Materna, FWS, re: Powder and Malheur summer max map changes
<a href="#"><u>87</u></a>	00939-00939	08/11/03	Email from Elizabeth Materna, FWS, to Tracy Harrison, ODEQ, re: Powder and Malheur summer max map, with one attachment
<a href="#"><u>88</u></a>	00940-00940	08/11/03	Attachment: Critical period fish use designations Powder and Malheur basins, Oregon; draft 8/8/03 map
<a href="#"><u>89</u></a>	00941-00941	08/08/03	Email from Tracy Harrison, ODEQ to Chris Mebane, NMFS, re: Klamath summer max map, with one attachment

<a href="#"><u>90</u></a>	00942-00942	08/08/03	Attachment: Critical period, fish use designations Klamath basin, Oregon, Draft 8/8/03
<a href="#"><u>91</u></a>	00943-00944	08/07/03	Email from Audrey Hatch, OSU to Elizabeth Materna, FWS, re: Pine creek basin, no timing information
<a href="#"><u>92</u></a>	00945-00945	08/06/03	Email from Audrey Hatch, OSU to Elizabeth Materna, FWS, re: Pine Creek Basin, no timing information, with one attachment
<a href="#"><u>93</u></a>	00946-00946	08/06/03	Attachment: ODFW Timing Table, Pine Creek non-anadromous species
<a href="#"><u>94</u></a>	00947-00951	08/06/03	Email from Dru Keenan, EPA to Elizabeth Materna, FWS re: Timing of the bull trout spawning below reservoirs
<a href="#"><u>95</u></a>	00952-00952	08/06/03	Email from John Palmer, EPA to Dru Keenan, EPA re: Final draft of where/when decision rules, with one attachment
<a href="#"><u>96</u></a>	00953-00954	08/06/03	Attachment: Final draft of decision rules to designate pacific salmon and bull trout beneficial uses in Oregon
<a href="#"><u>97</u></a>	00955-00955	08/05/03	Email from Alan Mauer, FWS, to Elizabeth Materna, FWS, re: Lahontan cutthroat trout temperatures
<a href="#"><u>98</u></a>	00956-00956	08/05/03	Email from Alan Mauer, FWS, to Elizabeth Materna, FWS, re: Lahontan cutthroat trout contacts
<a href="#"><u>99</u></a>	00957-00958	08/04/03	Email from Debra Sturdevant, ODEQ, to Elizabeth Materna, FWS, re: Classification of the non-anadromous endangered species
<a href="#"><u>100</u></a>	00959-00959	08/01/03	Email from Jeff Lockwood, NMFS to Dru Keenan, EPA re: Meeting notes from conference call on 07/30/03, with one attachment
<a href="#"><u>101</u></a>	00960-00961	08/01/03	Attachment: Notes from where and when conference call 07/30/03
<a href="#"><u>102</u></a>	00962-00964	07/31/03	Email from Debra Sturdevant, OSU to Chris Mebane, NMFS re: Prime, sub-prime or cooler habitat
<a href="#"><u>103</u></a>	00965-00965	07/30/03	Email from Dru Keenan, EPA to Elizabeth Materna, FWS re: Spawning rules II, with one attachment
<a href="#"><u>104</u></a>	00966-00967	07/30/03	Attachment: Draft version 2 spawning rules
<a href="#"><u>105</u></a>	00968-00969	07/29/03	Email from Chris Mebane, NMFS to Tracy Harrison, ODEQ re: Please respond revised decision rules, with one attachment
<a href="#"><u>106</u></a>	00970-00971	07/29/03	Attachment: Decision rule for mapping salmonid uses 7/28/03 revision
<a href="#"><u>107</u></a>	00972-00972	07/28/03	Email from Jennifer Weaver, ODEQ, to Bill Blosser, re: Last call on Division 41 revisions, with one attachment
<a href="#"><u>108</u></a>	00973-01060	07/28/03	Attachment: Draft #5 (July 28, 2003) ODEQ water pollution Division 41 water quality standards: beneficial uses, policies, and criteria for Oregon
<a href="#"><u>109</u></a>	01061-01061	07/25/03	Email from Cedric Cooney, OSU, to Bill Bogue, EPA, re: Response to questions from the July 15-16 where/when meeting, with one attachment
<a href="#"><u>110</u></a>	01062-01066	07/25/03	Attachment: Questions with answers from the EPA When/Where meeting on July 15th and 16th
<a href="#"><u>111</u></a>	01067-01068	07/25/03	Email from Debra Sturdevant, ODEQ to William Bogue, EPA, re: Bull trout proposal, ODEQ, ODFW, and FWS data overlay, with one attachment
<a href="#"><u>112</u></a>	01069-01118	07/25/03	Attachment: Bull Trout Habitat Designation Technical Work Group Recommendations, Final July 2003
<a href="#"><u>113</u></a>	01119-01121	07/25/03	Email from Debra Sturdevant, ODEQ to John Palmer, EPA re: New spawning proposal
<a href="#"><u>114</u></a>	01122-01122	07/24/03	Email from Emily Smith, ODEQ, to William Bogue, EPA, re: Bull trout issues

<a href="#">115</a>	01123-01124	07/23/03	Email from John Palmer, EPA to Chris Mebane, NMFS, re: New spawning proposal
<a href="#">116</a>	01125-01126	07/22/03	Email from Emily Smith, ODEQ, to Elizabeth Materna, FWS, re: Bull trout critical habitat map changes
<a href="#">117</a>	01127-01129	07/22/03	Email from Debra Sturdevant, ODEQ to William Bogue, EPA re: Bull trout spawning mapping and assigning values to diversions with one attachment
<a href="#">118</a>	01130-01130	07/22/03	Attachment: Preliminary John Day basin summer maximum stream temperature criteria for protection of salmon and trout core rearing and migration and bull trout spawning map
<a href="#">119</a>	01131-01131	07/15/03	Email from John Bowerman, FWS, to Elizabeth Materna, FWS, re: Minor changes to bull trout critical habitat in the Klamath Basin
<a href="#">120</a>	01132-01132	07/14/03	Email from Carmen Thomas, FWS to Elizabeth Materna, FWS re: Revisions to the proposed critical habitat map for the recovery unit
<a href="#">121</a>	01133-01133	07/11/03	Email from Dru Keenan, EPA to Elizabeth Materna, FWS re: Decision rules justifications assumptions, with one attachment
<a href="#">122</a>	01134-01135	07/11/03	Attachment: Decision rule assumptions to date
<a href="#">123</a>	01136-01136	07/10/03	Email from Alan Mauer, FWS to Elizabeth Materna, FWS re: Revisions to the proposed critical habitat map for the recovery unit
<a href="#">124</a>	01137-01138	07/07/03	Email from Debra Sturdevant, ODEQ, to Elizabeth Materna, FWS, re: Temperature standard issues to resolve
<a href="#">125</a>	01139-01141	07/07/03	Attachment: Temperature standard issues
<a href="#">126</a>	01142-01170	07/07/03	Attachment: July 7 draft temperature rule language
<a href="#">127</a>	01171-01174	07/01/03	Email from Elizabeth Materna, FWS, to Carmen Thomas, FWS, re: Reservoirs in the Pine Creek Basin
<a href="#">128</a>	01175-01178	07/01/03	Email from Carmen Thomas, FWS to Elizabeth Materna, FWS re: Mehlhorn and Clear creek reservoirs
<a href="#">129</a>	01179-01180	06/26/03	Email from Debra Sturdevant, ODEQ, to John Palmer, EPA, re: Willamette basin 18/16 rule
<a href="#">130</a>	01181-01182	06/23/03	Email from Paul Bridges, FWS, to Elizabeth Materna, FWS, re: bull trout spawning below reservoirs
<a href="#">131</a>	01183-01184	06/19/03	Email from Anne Walker, FWS, to Elizabeth Materna, FWS, re: bull trout spawning below reservoirs
<a href="#">132</a>	01185-01186	06/18/03	Email from Chris Allen, FWS, to Elizabeth Materna, FWS, re: bull trout spawning below reservoirs
<b>Data Considered but not Cited</b>			
<a href="#">133</a>	01187-01187	11/05/03	ODEQ Draft Grande Ronde Spawning map, 11/05/2003 draft
<a href="#">134</a>	01188-01188	11/05/03	ODEQ Draft Grande Ronde Summer Max map, 11/05/2003 draft
<a href="#">135</a>	01189-01189	11/05/03	ODEQ Draft Klamath Summer Max map, 11/05/2003 draft
<a href="#">136</a>	01190-01190	11/05/03	ODEQ Draft Malheur Summer Max map, 11/05/2003 draft
<a href="#">137</a>	01191-01196	10/01/03	Chandler, J.A., M.A. Fedora, and T.R. Walters. 2001. Pre- and Post-Spawn Movements and Spawning Observations of Resident Bull Trout in the Pine Creek Watershed, Eastern Oregon. In Brewin, M.K., A.J. Paul, and M. Mond+E327a, eds. Bull Trout II Conference Proceedings 167-172.
<a href="#">138</a>	01197-01214	07/07/03	FWS draft bull trout maps with ODEQ overlay and written comments.
<a href="#">139</a>	01215-01216	05/19/03	Data Inventory of Salmonid Life Stage Distribution and Timing
<a href="#">140</a>	01217-01312	01/00/03	ODEQ, Final Temperature Study in the John Day Basin for 2001
<a href="#">141</a>	01313-01313	11/29/02	Federal Register Notice, Vol. 67. No. 230, Proposed Rule bull trout critical habitat Unit 5-Hood River Basin map with written comments



<a href="#"><u>142</u></a>	01314-01380	01/31/01	Summary Report: State conservation measure 7 year 2000 field study of anadromous salmonid spawning season water temperature regimes in the Imnaha river basin: series of summary temperature graphs for Weneha and Imnaha Rivers and Catherine Creek
<a href="#"><u>143</u></a>	01381-01389	06/22/01	ODEQ Temperature Data - McKenzie River at Dearborn Is Rd bridge above South Fork McKenzie RM 60
<a href="#"><u>144</u></a>	01390-01391	06/22/01	ODEQ Temperature Data - Horse Creek at bridge on Horse Cr Rd
<a href="#"><u>145</u></a>	01392-01394	06/02/01	ODEQ Temperature Data - McKenzie River at Ranger Station
<a href="#"><u>146</u></a>	01395-01397	05/30/01	ODEQ Temperature Data - McKenzie River above Trail bridge Reservoir
<a href="#"><u>147</u></a>	01398-01400	05/19/01	ODEQ Temperature Data - RM 29.02 Metolius River u/s of Bridge 99
<a href="#"><u>148</u></a>	01401-01403	05/19/01	ODEQ Temperature Data - RM38.27 Metolius River d/s of Tract C Bridge
<a href="#"><u>149</u></a>	01404-01406	05/09/01	ODEQ Temperature Data - Metolius River North of Camp Sherman Bridge 99
<a href="#"><u>150</u></a>	01407-01410	05/09/01	ODEQ Temperature Data - Metolius River u/s of mouth of Canyon Creek
<a href="#"><u>151</u></a>	01411-01413	05/09/01	ODEQ Temperature Data - RM 38.34 Metolius River at Track C Bridge
<a href="#"><u>152</u></a>	01414-01416	05/09/01	ODEQ Temperature Data - RM 31.47 Metolius River at old water intake pipe near Wizard Falls Fish Hatchery
<a href="#"><u>153</u></a>	01417-01423	12/20/00	ODEQ Temperature Data - South Fork McKenzie River Near Rainbow, OR
<a href="#"><u>154</u></a>	01424-01425	09/00/98	ODEQ Temperature Data - Powder River Basin, Rock Creek u/s of Camp Lee
<a href="#"><u>155</u></a>	01426-01427	07/09/98	ODEQ Temperature Data - SF McKenzie River at Natl. Forest Rte. 19 Bridge
<a href="#"><u>156</u></a>	01428-01429	00/00/98	ODEQ Temperature Data - Wenaha Subbasin- 1998
<a href="#"><u>157</u></a>	01430-01432	08/01/96	ODEQ Temperature Data - Blue River at Blue River Drive
<a href="#"><u>158</u></a>	01433-01435	08/01/96	ODEQ Temperature Data - McKenzie River at Hwy 126 btwn Koosah Falls and Clear Lake
<a href="#"><u>159</u></a>	01436-01438	00/00/00	ODEQ Temperature Data - RM 11.94 Metolius River u/s of Gauging Station
<a href="#"><u>160</u></a>	01439-01441	00/00/00	ODEQ Temperature Data - RM 35.45 Metolius River at Gorge Campground
<a href="#"><u>161</u></a>	01442-01444	00/00/00	ODEQ Temperature Data - RM 39.20 Metolius River d/s of headwater springs
<a href="#"><u>162</u></a>	01445-01445	00/00/00	Pacific Northwest Reservoir System
<a href="#"><u>163</u></a>	01446-01446	00/00/00	Map of Upper Klamath Basin
<a href="#"><u>164</u></a>	01447-01447	00/00/00	Changes needed to Draft Hood Recovery Unit and Critical Habitat map for finalization.
<a href="#"><u>165</u></a>	01448-01450	00/00/00	Information for Hood River Basin bull trout map
<a href="#"><u>166</u></a>	01451-01456	00/00/00	Comments of bull trout proposed critical habitat Hood River Basin
<a href="#"><u>167</u></a>	01457-01459	00/00/00	FWS Tables - List of current local bull trout populations in the North, Middle, and Upper John Day River sub watershed
<a href="#"><u>168</u></a>	01460-01461	00/00/00	FWS Table comparing 9 °C date with documented spawn times
<b>Literature Cited</b>			
<a href="#"><u>169</u></a>	01462-01477	07/01/96	Batt, P.E., 1996. State of Idaho Bull Trout Conservation Plan. Office of the Governor, Boise, ID.

<a href="#">170</a>	01478-01509	00/00/96	Baxter, J.S. and J.D. McPhail. 1996. Bull trout spawning and rearing habitat requirements: summary of the literature. Fisheries technical circular no. 98. Fisheries Branch, British Columbia Ministry of Environment, Lands and Parks, Vancouver.
<a href="#">171</a>	01510-01516	00/00/99	Baxter, J.S. and J.D. McPhail. 1999. The influence of redd site selection, groundwater upwelling, and over-winter incubation temperature on survival of bull trout ( <i>Salvelinus confluentus</i> ) from egg to alevin. Canadian Journal of Zoology 77:1233-1239.
<a href="#">172</a>	01517-01618	12/05/90	Berman, C.H. 1990. Effect of elevated holding temperatures on adult spring chinook salmon reproductive success. MS Thesis. University of Washington. Seattle.
<a href="#">173</a>	01619-01669	09/00/77	Bjornn, T.C. 1977. Transport of Granitic Sediment in Streams and Its Effects on Insects and Fish. Research Technical Completion Report. Project B-036-IDA.
<a href="#">174</a>	01670-01675	00/00/87	Boag, T.D. 1987. Food habits of bull char, <i>Salvelinus confluentus</i> , and rainbow trout, <i>Salmo gairdneri</i> , coexisting in a foothills stream in northern Alberta. Canadian Field- Naturalist 101(1): 56-62.
<a href="#">175</a>	01676-01679	00/00/92	Bond, C.E. 1992. Notes on the nomenclature and distribution of the bull trout and the effects of human activity on the species. Pages 1-4 in Howell, P.J. and D.V. Buchanan, eds. Proceedings of the Gearhart Mountain bull trout workshop. Oregon Chapter of the American Fisheries Society, Corvallis, OR.
<a href="#">176</a>	01680-01682	00/00/96	Bonneau, J.L. and D.L. Scarnecchia. 1996. Distribution of juvenile bull trout in a thermal gradient of a plunge pool in Granite Creek, Idaho. Transactions of the American Fisheries Society 125: 628-630.
<a href="#">177</a>	01683-01692	00/00/97	Brewin, P.A. and M. K. Brewin. 1997. Distribution Maps for Bull Trout in Alberta. Pages 209-216 in Mackay, W.C., M.K. Brewin and M. Monita. Friends of the bull Trout Conference Proceedings.
<a href="#">178</a>	01693-01805	03/00/92	Brown, L.G. 1992. On the zoogeography and life history of Washington native charr Dolly Varden ( <i>Salvelinus malma</i> ) and bull trout ( <i>Salvelinus confluentus</i> ). Washington Department of Wildlife, Fisheries Management Division Report, Olympia, Washington.
<a href="#">179</a>	01806-01814	00/00/97	Buchanan, D.V., and S.V. Gregory. 1997. Development of water temperature standards to protect and restore habitat for bull trout and other cold water species in Oregon. Pages 119-126 in Mackay, W.C., M.K. Brewin, and M. Monita, eds. Friends of the bull trout conference proceedings. Bull Trout Task Force (Alberta), do Trout Unlimited Canada, Calgary.
<a href="#">180</a>	01815-01999	10/00/97	Buchanan, D.V., M.L. Hanson, and R.M. Hooton. 1997. Status of Oregon's bull trout, distribution, life history, limiting factors, management considerations and status. Oregon Department of Fish and Wildlife.
<a href="#">181</a>	02000-02010	01/00/02	Carnefix, G. 2003. Montana's fish species of special concern: bull trout.
<a href="#">182</a>	02011-02029	00/00/78	Cavender, T. M. 1978. Taxonomy and distribution of the bull trout, <i>Salvelinus confluentus</i> (Suckley), from the American Northwest. California Fish and Game.
<a href="#">183</a>	02030-02038	00/00/73	Coutant, C.C. 1973. Effects of thermal shock on vulnerability of juvenile salmonids to predation. J. Fish. Res. Bd. Canada 30: 965-973.

<a href="#"><u>184</u></a>	02039-02054	10/05/94	Crane, P.A., L.W. Seeb, and J.E. Seeb. 1994. Genetic relationships among <i>Salvelinus</i> species inferred from allozyme data. Canadian Journal of Fisheries and Aquatic Sciences 51:182-197.
<a href="#"><u>185</u></a>	02055-02064	00/00/93	Donald, D.B. and D.J. Alger. 1993. Geographic distribution, species displacement, and niche overlap for lake trout and bull trout in mountain lakes. Canadian Journal of Zoology 71: 238-247.
<a href="#"><u>186</u></a>	02065-02109	04/30/99	Dunham, J. 1999. Stream temperature criteria for Oregon's Lahontan cutthroat trout <i>Oncorhynchus clarki henshawi</i> - final report. Prepared for Oregon Department of Environmental Quality, Portland, OR. April 30, 1999.
<a href="#"><u>187</u></a>	02110-02187	01/00/98	Flatter, B. 1998. Life history and population status of migratory bull trout ( <i>Salvelinus confluenrus</i> ) in Arrowrock Reservoir, Idaho. Prepared for U.S. Bureau of Reclamation by Idaho Department of Fish and Game, Nampa, Idaho.
<a href="#"><u>188</u></a>	02188-02290	00/00/89	Fraley, J.J., and B.B. Shepard. 1989. Life history, ecology and population status of migratory bull trout ( <i>Salvelinus confluenrus</i> ) in the Flathead Lake and River System, Montana. Northwest Science 63(4): 133-143.
<a href="#"><u>189</u></a>	02291-02325	00/00/68	Fulton, L.A. 1968. Spawning areas and abundance of Chinook salmon, <i>Oncorhynchus tshawytscha</i> , in the Columbia River basin — past and present. U.S. Fish and Wildlife Service, Special Scientific Report, Fisheries. 571:26.
<a href="#"><u>190</u></a>	02326-02344	00/00/96	Gammett, B. 1996, Draft Part 2: Overview by Species.
<a href="#"><u>191</u></a>	02345-02652	05/00/99	Gammett, B. 1999. The History and Status of Fisheries in the Little Lost River drainage, Idaho. Miscellaneous information contained in draft report. US Forest Service.
<a href="#"><u>192</u></a>	02653-02657	08/16/97	Gilpin, M. 1997. Connectivity on the Clark Fork: The bigger picture.
<a href="#"><u>193</u></a>	02658-02715	02/00/89	Goetz, F. 1989. Biology of the bull trout, <i>Salvelinus confluentus</i> , a literature review. Willamette National Forest. Eugene, Oregon.
<a href="#"><u>194</u></a>	02716-02723	00/00/90	Greene, P.M., N. Billington, and P.D.N. Hebert. 1990. Phylogenetic relationships among members of <i>Salvelinus</i> inferred from Mitochondrial DNA divergence. Can. J. Fish. Aquat. Sci. 47: 984-991.
<a href="#"><u>195</u></a>	02724-02744	00/00/91	Haas, G.R., and J.D. McPhail. 1991. Systematics and distributions of Dolly Varden ( <i>Salvelinus malma</i> ) and bull trout ( <i>Salvelinus confluenrus</i> ) in North America. Can. J. Fish. Aquatic Sciences 48: 2191- 2211.
<a href="#"><u>196</u></a>	02745-02811	01/00/89	Hoelscher, B. and T.C. Bjorn. 1989. Habitat, densities and potential production of trout and char in Pend Oreille Lake tributaries. Project F-71-R-10, Subproject III, Job No. 8. Idaho Department of Fish and Game, Boise, ID.
<a href="#"><u>197</u></a>	02812-02881	00/00/92	Howell, P.J. and D.V. Buchanan, eds. 1992. Proceedings of the Gearhart Mountain bull trout workshop. Oregon Chapter of the American Fisheries Society, Corvallis, OR. Kann, J. 1998. Klamath Tribes, Chiloquin, Oregon. EPA personal communication.
<a href="#"><u>198</u></a>	02882-03007	05/00/95	Jakober, M. 1995. Autumn and Winter Movement and Habitat Use of Resident Bull Trout and Westslope Cutthroat Trout in Montana.



<a href="#"><u>199</u></a>	03008-03034	11/00/96	Klamath Tribes Natural Resources Department. 1996. Draft, A synopsis of the early life history and ecology of catostomids, with a focus on the Williamson River Delta
<a href="#"><u>200</u></a>	03035-03040	00/00/97	Leary, R.F. and F.W. Allendorf. 1997. Genetic confirmation of sympatric bull trout and Dolly Varden in western Washington. Transactions of the American Fisheries Society 126:715-720.
<a href="#"><u>201</u></a>	03041-03248	10/00/82	Leathe, S.A. and P. Graham. 1982. Flathead Lake Fish Food Habits Study. Environmental Protection Agency, through Steering Committee for the Flathead River Basin Environmental Impact Study.
<a href="#"><u>202</u></a>	03249-03262	00/00/93	Maret, T.R., T.A. Burton, G.W. Harvey. and W.H. Clark. 1993. Field testing of new monitoring protocols to assess brown trout spawning habitat in an Idaho stream. N. Am. J. Fish. Man. 13:567-580.
<a href="#"><u>203</u></a>	03263-03365	08/00/88	Mauser, G.R., R.W. Vogelsang, and C.L. Smith. 1988. Enhancement of Trout in Large North Idaho Lakes. Idaho Department of Fish and Game. Project # F-73-R-10.
<a href="#"><u>204</u></a>	03366-03654	02/22/99	McCullough, D.A. 1999. A review and synthesis of effects of alterations to the water temperature regime on freshwater life stages of salmonids, with special reference to chinook salmon. Prepared for the U.S. Environmental Protection Agency, Region 10, Seattle, Washington.
<a href="#"><u>205</u></a>	03655-03691	00/00/96	McPhail, J.D., and J.S. Baxter. 1996. A Review of Bull Trout ( <i>Salvelinus confluentus</i> ) Life-history and Habitat Use in Relation to Compensation and improvement Opportunities. University of British Columbia. Fisheries Management Report #104.
<a href="#"><u>206</u></a>	03692-03824	12/00/79	McPhail, J.D., and C.B. Murray. 1979. The early life-history and ecology of Dolly Varden ( <i>Salvelinus malma</i> ) in the Upper Arrow Lakes. Department of Zoology and Institute of Animal Resources, University of British Columbia, Vancouver, British Columbia.
<a href="#"><u>207</u></a>	03825-03922	07/00/93	Monda, D. and M.K. Saiki. 1993. Tolerance of Juvenile Lost River and Shortnose Suckers to High pH, Ammonia concentration, and Temperature, and to Low Dissolved Oxygen concentration. USFWS Report for US Bureau of Reclamation. July 1995.
<a href="#"><u>208</u></a>	03923-03930	00/00/88	Moyle, P. and J. Cech, Jr. 1988. Fishes: an introduction to ichthyology. Prentice Hall, Inc., New Jersey.
<a href="#"><u>209</u></a>	03931-04096	06/00/95	ODEQ (Oregon Department of Environmental Quality). 1995. Dissolved Oxygen. Final Issue Paper. 1992-1994 Water quality standards review. Standards and Assessment Section, Portland, Oregon.
<a href="#"><u>210</u></a>	04097-04119	04/26/01	ODEQ (Oregon Department of Environmental Quality). 2003. A Summary of the discussion and findings of ODEQ's Technical Advisory Committee on Water Quality Criteria for Temperature. Oregon Department of Environmental Quality, Portland, Oregon.
<a href="#"><u>211</u></a>	04120-04132	06/00/96	ODFW (Oregon Department of Fish and Wildlife). 1996. Species at Risk: Sensitive, Threatened and Endangered Vertebrates of Oregon. ODFW, Portland.
<a href="#"><u>212</u></a>	04133-04136	00/00/89	Phillips, R. B., K.A. Pleyte, and P.E. Ihssen. 1989. Patterns of chromosomal nuclear organizer region (NOR) variation in fishes of the genus <i>Salvelinus</i> . Copeia, 1989: 47-53.

<a href="#"><u>213</u></a>	04137-04144	06/02/92	Pleyte, K.A., S.D. Duncan, and R. B. Phillips. 1992, Evolutionary relationships of the salmonids fish genus <i>Salvelinus</i> inferred from DNA sequences of the first internal transcribed spacer (ITS 1) of ribosomal DNA
<a href="#"><u>214</u></a>	04145-04152	00/00/92	Pratt, K.L. 1992. A Review of bull trout life history. 00. 5-9. In Proceedings of the Gearhart Mountain Bull Trout Workshop, ed. Howell, P.J. and D.V. Buchanan. Gearhart Mountain, OR. Corvallis, OR: Oregon Chapter of the American Fisheries Society. August 1992.
<a href="#"><u>215</u></a>	04153-04222	00/00/85	Pratt, K.L. 1985. Pend Oreille trout and char life history study. Idaho Department of Fish and Game, Boise, Idaho.
<a href="#"><u>216</u></a>	04223-04422	12/01/93	Pratt, K.L., and J.E. Huston. 1993. Status of bull trout ( <i>Salvelinus confluentus</i> ) in Lake Pend Oreille and the lower Clark Fork River: (draft report) Prepared for the WWPC, Spokane, WA.
<a href="#"><u>217</u></a>	04423-04430	00/00/92	Ratliff, D. E. and P.J. Howell, 1992. The status of bull trout populations in Oregon. Proceeding of the Gearhart mountain bull trout workshop.
<a href="#"><u>218</u></a>	04431-04490	05/00/96	Rich, C.F., Jr. 1996. Influence of abiotic and biotic factors on occurrence of resident bull trout in fragmented habitats, western Montana. MS thesis, Montana State University, Bozeman, MT.
<a href="#"><u>219</u></a>	04491-04500	00/00/01	Rieman, B.E. and F.W. Allendorf. 2001 (in press) Effective population size and Genetic conservation criteria for bull trout.
<a href="#"><u>220</u></a>	04501-04508	11/00/97	Rieman, B., and J. Clayton. 1997. Wildfire and native fish: issues of forest health and conservation of sensitive species. <i>Fisheries</i> 22(11):6-15.
<a href="#"><u>221</u></a>	04509-04547	02/16/99	Reiman, B., and G. Chandler. 1999. Empirical evaluation of temperature effects on bull trout distribution in the Northwest. Final Report. Contract No. 12957242-01-0. U.S. Environmental Protection Agency, Boise, ID.
<a href="#"><u>222</u></a>	04548-04589	09/00/93	Rieman, B.E., and J.D. McIntyre. 1993. Demographic and habitat requirements of bull trout <i>Salvelinus confluentus</i> . General Technical Report INTGTR- 302. U.S. Department of Agriculture, Forest Service, Intermountain Research Station, Ogden, Utah.
<a href="#"><u>223</u></a>	04590-04601	05/00/95	Rieman, B.E., and J.D. McIntyre. 1995. Occurrence of bull trout in naturally fragmented habitat patches of varied size. <i>Transactions of the American Fisheries Society</i> 124:285-296.
<a href="#"><u>224</u></a>	04602-04611	00/00/96	Rieman, B.E. and J.D. McIntyre. 1996. Spatial and temporal variability in bull trout redd counts. <i>North American J. of Fisheries Manage.</i> 16: 132-141.
<a href="#"><u>225</u></a>	04612-04615	01/30/97	Rieman, B.E. and D.L. Myers. 1997. Use of redd counts to detect trends in bull trout ( <i>Salvelinus confluentus</i> ) populations. <i>Conservation Biology</i> 11:1015-1018.
<a href="#"><u>226</u></a>	04616-04630	00/00/97	Reiman, B.E., Lee, D. and R.F. Thurow. 1997. Distribution, status and likely future trends of bull trout within the Columbia River and Kiamath River basins. <i>North American J. of Fisheries Manage.</i> 17:1111-1125.
<a href="#"><u>227</u></a>	04631-04911	00/00/00	Risser, P.O. 2000. Oregon State of the Environment Report. Oregon Progress Board.
<a href="#"><u>228</u></a>	04912-04968	00/00/98	Scheerer P.D. and O. D. Apke. 1998. Oregon Chub Research (1997): Middle Fork Willamette and Santiam River Drainages. Annual Progress Report. Fish Research Projects. Oregon.

<a href="#">229</a>	04969-04992	00/00/99	Scheerer, P. 1999. Oregon chub research in the Willamette Valley 1991-1999. Oregon Department of Fish and Wildlife, Corvallis, OR.
<a href="#">230</a>	04993-05087	00/01/00	Scheerer, P. D and P.J. McDonald. 2000. Oregon Chub Research: Middle Fork Willamette and Santiam River Drainages. Contract #W66QKZ93345985. Oregon Department of Fish and Wildlife. Corvallis, Oregon.
<a href="#">231</a>	05088-05117	00/00/03	Scheerer, P., P.S. Kavanagh, and K. Jones. 2003. Oregon Department of Fish and Wildlife Annual Progress Report on Oregon chub. Project Number E-2-35.
<a href="#">232</a>	05118-05131	00/00/86	Scoppettone G.G. 1986. Upper Klamath Lake, Oregon Catostoinid Research. Completion Report, U.S. Fish and Wildlife Service, National Fisheries Research Center, Seattle, WA
<a href="#">233</a>	05132-05147	00/00/91	Sedell, J.R. and R.L. Beshta. 1991. Bringing back the "bio" in bioengineering. Pages 160-175 in Colt, J. and S. Dendral eds., Fisheries Bioengineering: Proceedings of the Symposium. American Fisheries Society Special Publication Number 10.
<a href="#">234</a>	05148-05153	00/00/91	Sedell, J.R. and F.H. Everest. 1991. Historic changes in pool habitat for Columbia River Basin salmon under study for TES listing. Draft USDA Report. Pacific Northwest Research Station. Corvallis, OR.
<a href="#">235</a>	05154-05165	00/00/01	Selong, J.H., T.E. McMahon, A.V. Zale, and F.T. Barrows. 2001. Effect of temperature on growth and survival of bull trout, with application of an improved method for determining thermal tolerance in fishes. Transactions of the American Fisheries Society. 130: 1026-1037.
<a href="#">236</a>	05166-05175	00/00/97	Sexauer, H.M., and P.W. James. 1997. Microhabitat Use by Juvenile Trout in Four Streams Located in the Eastern Cascades, Washington. Pages 361-370 in W.C. Mackay, M.K. Brown and M. Monita (eds.). Friends of the Bull Trout Conference Proceedings. Bull Trout Task Force (Alberta), do Trout Unlimited Calgary, Canada.
<a href="#">237</a>	05176-05186	00/00/84	Shepard, B.B., S.A. Leathe, T.M. Weaver, and M.D. Enk. 1984. Monitoring levels of fine sediment within tributaries of Flathead Lake and impacts of fine sediment on bull trout recruitment. Proceedings of the Wild Trout III Symposium, Yellowstone National Park, Wyoming.
<a href="#">238</a>	05187-05191	00/00/82	Simpson, J.C., and R.L. Wallace. 1982. Fishes of Idaho. University Press of Idaho. Moscow, ID.
<a href="#">239</a>	05192-05356	12/00/96	Spence, B.C., G.A. Lomnický, R.M. Hughes, R.P. Novitzki. 1996. An ecosystem approach to salmonid conservation. TR-4501-96-6057. ManTech Environmental Research Services Corp., Corvallis, OR.
<a href="#">240</a>	05357-05373	00/00/96	Stednick, J.D. 1996. Monitoring the effects of timber harvest on annual water yield. Journal of Hydrology 176:79-95.
<a href="#">241</a>	05374-05385	00/00/97	Swanberg, T.R. 1997. Movements of and Habitat use by fluvial bull trout in the Blackfoot River, Montana. Transactions of the American Fisheries Society 126:735-746.
<a href="#">242</a>	05386-05490	08/00/92	Thomas, G. 1992. Status of bull trout in Montana. Report prepared for Montana Department of Fish, Wildlife and Parks, Helena, Montana.

<a href="#"><u>243</u></a>	05491-05711	07/00/92	Underwood, K.D., S.W. Martin, M.L. Schuck, and A.T. Scholz. 1992. Investigations of bull trout ( <i>Salvelinus confluentus</i> ), steelhead trout ( <i>Oncorhynchus mykiss</i> ), and spring shinook salmon ( <i>O. tshawytscha</i> ) interactions in southeast Washington Streams. 1991 Annual Report. U.S. Department of Energy, Bonneville Power Administration, Division of Fish and Wildlife. Project No. 90-053, Contract No. DE-BI79-91BP17758
<a href="#"><u>244</u></a>	05712-05774	04/05/97	USBOR (U.S. Bureau of Reclamation). 1997. Biological report on the Klamath project 1997 operations plan. USBR, Mid-Pacific Region, Klamath Basin Area Office.
<a href="#"><u>245</u></a>	05775-05827	04/00/86	USEPA (U.S. Environmental Protection Agency). 1986. Ambient water quality criteria for dissolved oxygen. EPA 440/5-86-003. Office of Water Regulations and Standards, Criteria and Standards Division, Washington DC.
<a href="#"><u>246</u></a>	05828-05973	09/15/98	USEPA (U.S. Environmental Protection Agency). 1998. Biological assessment of the revised Oregon water quality standards for dissolved oxygen, temperature, and pH. U.S. Environmental Protection Agency, Seattle, WA.
<a href="#"><u>247</u></a>	05974-05978	06/11/85	USFWS (U.S. Fish and Wildlife Service). 1985. Endangered and threatened wildlife and plants; determination of endangered status and critical habitat for the Modoc sucker, Final Rule, June 11, 1985
<a href="#"><u>248</u></a>	05979-06089	04/00/93	USFWS (U.S. Fish and Wildlife Service). 1993. Lost River ( <i>Deltistes luxatus</i> ) and shortnose ( <i>Chasmistes brevirostris</i> ) sucker Recovery Plan. Portland, Oregon.
<a href="#"><u>249</u></a>	06090-06246	01/00/95	USFWS (U.S. Fish and Wildlife Service). 1995. Lahontan cutthroat trout, <i>Oncorhynchus clarki henshawi</i> , Recovery Plan. Portland, Oregon 147 pp.
<a href="#"><u>250</u></a>	06247-06342	09/03/98	USFWS (U.S. Fish and Wildlife Service). 1998a. Recovery plan for the Oregon chub ( <i>Oregonichthys crameri</i> ). U.S. Fish and Wildlife Service, Portland, OR. 59 pages.
<a href="#"><u>251</u></a>	06343-06441	04/27/98	USFWS (U.S. Fish and Wildlife Service). 1998b. Recovery plan for the native fishes of the Warner Basin and Alkali subbasin. U.S. Fish and Wildlife Service, Portland, OR. 86 pp.
<a href="#"><u>252</u></a>	06442-06497	07/01/99	USFWS (U.S. Fish and Wildlife Service). 1999. Oregon water quality standards ESA consultation. U.S. Department of the Interior, US. Fish and Wildlife Service, Oregon State Office, Portland, OR. July 1, 1999.
<a href="#"><u>253</u></a>	06498-06500	00/00/02	USFWS (U.S. Fish and Wildlife Service). 2002a. Bull trout ( <i>Salvelinus confluentus</i> ) endangered species fact sheet.
<a href="#"><u>254</u></a>	06501-06647	10/00/02	USFWS (U.S. Fish and Wildlife Service). 2002b. Bull trout ( <i>Salvelinus confluentus</i> ) Draft Recovery Plan. Portland, Oregon
<a href="#"><u>255</u></a>	06648-06650	00/00/03	USFWS (U.S. Fish and Wildlife Service). 2003a. Lahontan cutthroat trout ( <i>Oncorhynchus clarki henshawi</i> ) endangered species fact sheet.
<a href="#"><u>256</u></a>	06651-06653	00/00/03	USFWS (U.S. Fish and Wildlife Service). 2003b. Oregon chub ( <i>Oregonichthys crameri</i> ) endangered species fact sheet.
<a href="#"><u>257</u></a>	06654-07024	03/00/98	USFWS (U.S. Fish and Wildlife Service) and NMFS (National Marine Fisheries Service). 1998. Consultation handbook: procedures for conducting consultation and conference activities under Section 7 of the Endangered Species Act.

<a href="#">258</a>	07025-07039	03/00/62	Vaux, W.G. 1962. Interchange of stream and intragravel water in a salmon spawning riffle. Special Scientific Report — Fisheries No. 405. U.S. Dept. of the Interior, Fish and Wildlife Service.
<a href="#">259</a>	07040-07114	03/00/97	WDFW (Washington Department of Fish and Wildlife). 1997. Grandy creek trout hatchery biological assessment, bald eagle, marbled murrelet, northern spotted owl, spotted frog, bull trout
<a href="#">260</a>	07115-07558	07/00/98	WDFW (Washington Department of Fish and Wildlife). 1998. Washington State Salmonid Stock Inventory - Bull Trout/Dolly Vardin.
<a href="#">261</a>	07559-07574	05/00/97	Watson, G., and T.W. Hillman. 1997. Factors affecting the distribution and abundance of bull trout: and investigation at hierarchical scales. North American Journal of Fisheries Management 17:237-252.
<a href="#">262</a>	07575-07580	00/00/73	Wedemeyer, G. 1973. Some physiological aspects of sublethal heat stress in the juvenile steelhead trout ( <i>Salmo gairdneri</i> ) and coho salmon ( <i>Oncorhynchus kisutch</i> ). J. Fish. Res. Bd. Canada 30:831-834.
<a href="#">263</a>	07581-07581	03/01/01	Werdon, S., U.S. Fish and Wildlife Service. 2001. email message. BTRP citations
<a href="#">264</a>	07582-07591	00/00/60	Whitmore, C.M., C.E. Warren, and P. Doudoroff. 1960. Avoidance reactions of salmonid and centrarchid fishes to low oxygen concentrations. Transactions of the American Fisheries Society. 89(1):17-26.
<a href="#">265</a>	07592-07603	00/00/92	Ziller, J.S. 1992. Distribution and relative abundance of bull trout in the Sprague River subbasin, Oregon. Pages 18-29 in Howell, P.J. and D.V. Buchanan, editors. Proceedings of the Gearhart Mountain bull trout workshop. Oregon Chapter of the American Fisheries Society, Corvallis, OR.
<b>Documents Included in NMFS' or EPA's Administrative Records That Are Also Part of FWS' Administrative Record But Are Not Physically Provided With This Record.</b>			
	NMFS AR Doc. 22 EPA AR Doc. 156	00/00/87	Chapman, D. W. and McLeod, K.P. 1987. Development of Criteria for Fine Sediment in the Northern Rockies Ecoregion, Final Report EPA, contract No. 68-01-6986. EPA910/9-87-162
	NMFS AR Doc. 27	07/00/03	Dewberry, T.C. 2003. Development and application of anchor habitat approaches to salmon conservation: A synthesis of data and observation from the Siuslaw watershed, coastal Oregon. Unpublished draft report. Portland, Oregon. 16 p. July.
	NMFS AR Doc. 30 EPA AR Doc. 96	03/00/01	Ecotrust, Oregon Trout, and The Wild Salmon Center. 2000. A Salmon Anchor Habitat Strategy for the Tillamook and Clatsop State Forests. Updated Version, March 2001. Portland, Oregon. 29 p. plus appendices.
	NMFS AR Doc. 39 EPA AR Doc. 163	06/00/81	Hollender, B. A. 1981. Embryo Survival, Substrate Composition, and Dissolved Oxygen in Redds of Wild Brook Trout. M. S. Thesis, Univ. of Wisconsin
	EPA AR Doc. 108	09/19/02	Myrick, Christopher A., et al. Sept. 19, 2002. Bull Trout Temperature Thresholds Peer Review Summary
	NMFS AR Doc. 69 EPA AR Doc. 101	02/26/02	Oregon Department of Fish and Wildlife, 1:24K Fish Habitat Distribution Development Project Procedures Manual



	EPA AR Doc. 64	02/04/04	U.S. EPA Biological Evaluation of the Revised Oregon Water Quality Standards for Temperature, Intergravel Dissolved Oxygen, and Antidegradation, Amended Final, prepared for USFWS and NMFS by EPA, Region 10
	NMFS AR Doc. 31 EPA AR Doc. 104	04/00/03	U.S. EPA Region 10 Guidance for Pacific Northwest State and Tribal Temperature Water Quality Standards, April 2003, EPA 910-B-03-002
	NMFS AR Doc. 81 EPA AR Doc. 121	05/00/01	U.S. EPA Issue Paper 1: Salmonid Behavior and Water Temperature, Prepared as Part of EPA Region 10 Temperature Water Quality Criteria Guidance Development Project, EPA-910-D-01-001, May 2001
	NMFS AR Doc. 28 EPA AR Doc. 122	05/00/01	U.S. EPA Issue Paper 2: Salmonids Distribution and Temperature, Prepared as Part of EPA Region 10 Temperature Water Quality Criteria Guidance Development Project, EPA-910-D-01-002, May 2001
	NMFS AR Doc. 74 EPA AR Doc. 117	10/00/01	U.S. EPA Issue Paper 3: Spatial and Temporal Patterns of Stream Temperature, Prepared as Part of EPA Region 10 Temperature Water Quality Criteria Guidance Development Project, EPA-910-D-01-003, Oct. 2001
	NMFS AR Doc. 47 EPA AR Doc. 123	05/00/01	U.S. EPA Issue Paper 4: Temperature Interaction, Prepared as Part of EPA Region 10 Temperature Water Quality Criteria Guidance Development Project, EPA-910-D-01-004, May 2001
	NMFS AR Doc. 52 EPA AR Doc. 124	05/00/01	U.S. EPA Issue Paper 5: Summary of Technical Literature Examining the Physiological Effects of Temperature on Salmonids, Prepared as Part of EPA Region 10 Temperature Water Quality Criteria Guidance Development Project, EPA-910-D-01-005, May 2001
	NMFS AR Doc. 98 EPA AR Doc. 119	08/00/01	U.S. EPA Technical Synthesis: Scientific Issues Relating to Temperature Criteria for Salmon, Trout, and Char Native to the Pacific Northwest: A Summary Report Submitted to the Policy Workgroup of the EPA Region 10 Water Temperature Criteria Guidance Project, EPA-910-D-01-007
	EPA AR Doc. 95	00/00/72	National Academy of Sciences. 1972. Water Quality Criteria 1972 A Report of the Committee on Water Quality Criteria, Environmental Studies Board, National Academy of Sciences. U.S. Environmental Protection Agency. EPA.R3.73.
	EPA AR Doc. 159	04/00/86	U.S. EPA. 1986. Ambient Water Quality Criteria for Dissolved Oxygen (Freshwater), Office of Water Regulations and Standards, Criteria and Standards Division, EPA 440/5-86-003